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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/491,994	01/26/2000	Curtis Gregory Kelsay	10990356-1	9325
22879 7	7590 12/23/2004		EXAM	INER
HEWLETT PACKARD COMPANY			WILLIAMS, KEVIN D	
P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400			ART UNIT	PAPER NUMBER
			2854	

DATE MAILED: 12/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		<u>utn</u>
	Application No.	Applicant(s)
	09/491,994	KELSAY, CURTIS GREGORY
Office Action Summary	Examiner	Art Unit
	Kevin D. Williams	2854
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet wi	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by state than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a resepty within the statutory minimum of thirty od will apply and will expire SIX (6) MON tute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
 1) Responsive to communication(s) filed on <u>08</u> 2a) This action is FINAL. 2b) The Third This action is FINAL. 3) Since this application is in condition for allow closed in accordance with the practice under the	his action is non-final. vance except for formal matte	
Disposition of Claims		
4) ☐ Claim(s) 42,45-49 and 51-55 is/are pending 4a) Of the above claim(s) is/are withdensity 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 42,45-49 and 51-55 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Exami 10) ☑ The drawing(s) filed on <u>02 July 2001</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. 11) ☐ The oath or declaration is objected to by the	a) \boxtimes accepted or b) \square objective drawing(s) be held in abeyant ection is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in A riority documents have been eau (PCT Rule 17.2(a)).	pplication No received in this National Stage
Attachment(s)	_	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/O Paper No(s)/Mail Date 	Paper No(s	ummary (PTO-413))/Mail Date Iformal Patent Application (PTO-152)

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 09/491,994

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 42, 45, 48, 49, 51, 52, and 55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pressler (US 6,005,700) in view of Suzuki (US 5,857,065).

Pressler teaches a housing 100 having a printed circuit assembly 108 disposed within the housing, a direct wire port 228 electrically coupled to the printed circuit assembly, an optical transducer 150 electrically coupled to the printed circuit assembly and configured to transmit information optically, an optical data port 172 formed in the housing, a light pipe assembly 160 optically coupling and providing communication between the optical transducer 150 and the optical data port 172, a transmit light pipe 160 adapted to optically transmit information from the optical transducer to the optical data port, the optical data port being arranged to communicate with an open environment (Fig. 7), the transmit light pipe being configured to exit and diverge (col. 7, lines 14-17) light from the optical data port to the open environment, a transmit lens 324 configured to increase an angle of illumination of light exiting the optical data port to the open environment, the housing having a first side and a second side, where the printed circuit assembly, the optical transducer, and the light pipe assembly are disposed within

the housing, the direct wire port communicating with the first side (left in Fig. 3) of the housing and the optical data port communicates with the second side (right in Fig. 3) of the housing, the second side of the housing being opposite the first side of the housing, a light source 150 electrically coupled to the printed circuit assembly, a light guide 160 optically coupling the light source and the optical data port.

Pressler does not teach a print engine disposed within the housing, the transmit light pipe being disposed in a printer housing, an optical transducer configured to receive information optically, a light pipe assembly providing bi-directional communication between the optical transducer and the optical data port, and a receive light pipe disposed within the printer housing and adapted to optically receive information via the optical data port and optically transmit the received information to the optical transducer.

Suzuki teaches a print engine 10 disposed within a housing, an optical transducer 57 configured to transmit and receive information optically, bi-directional communication between the optical transducer and an optical data port 65, and optically receiving information via the optical data port and optically transmiting the received information to the optical transducer.

In view of the teaching in Suzuki to provide bi-directional communication, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Pressler to have a receive light pipe and for the computer peripheral device to be a printer as taught by Suzuki, in order to increase the versatility of the device by providing bi-directional communication.

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3. Claims 46, 47, 53, and 54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pressler in view of Suzuki as applied to claims 42, 45, 48, and 49 above, and further in view of Sedlmayr (US 6,034,818).

Pressler in view of Suzuki teaches the claimed invention except for the receive light pipe being configured to converge light from the open environment on the optical transducer and a receive lens configured to collimate light from the open environment into the receive light pipe.

Sedlmayr teaches a receive light pipe 75 being configured to converge light and a receive lens 71 configured to collimate light into the receive light pipe (Fig. 27A).

It would have been obvious to one of ordinary skill in the art at the time of the invention to additionally modify Pressler to have the receive lens as taught by Sedlmayr, in order to collimate the light entering the receive pipe.

Response to Arguments

4. Applicant's arguments filed 10/08/2004 have been fully considered but they are not persuasive.

Applicant argues that modifying Pressler by Suzuki does not teach or suggest each and every element of the instant invention. Applicant further points out that Suzuki does not teach or suggest light pipes. The above rejection under 35 U.S.C. 103 modifies Pressler to communicate bi-directionally as taught by Suzuki. Pressler teaches light pipes.

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Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin D. Williams whose telephone number is (571) 272-2172. The examiner can normally be reached on Monday - Friday, 8:30am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew H. Hirshfeld can be reached on (571) 272-2168. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KDW

December 20, 2004

ANDREW H. HIRSHFELD SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800

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